

A NEW SPECIES OF THE GENUS *BOLIVARITETTIX* GÜNTHER (ORTHOPTERA, TETRIGOIDEA, METRODORIDAE) FROM GUANGXI, CHINA

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Abstract This paper reports one new species of the genus *Bolivaritettix* Günther from Guangxi. Type specimens are deposited in the Institute of Zoology, Shaanxi Normal University, China (2 ♂♂, 2♀♀) and Department of Chemistry and Life Science, Hechi University, China (1 ♂, 1♀).

Key words Orthoptera, Tetrigoidea, Metrodoridea, *Bdivaritetrix*, new species, Guangxi.

The genus *Bolivaritettix* was erected by Günther in 1939 and currently includes 76 species (Günther, 1939; Steinmann, 1962; Shishodia, 1991; Zheng, 2005). The type species is *Bolivaritettix salphus* (Bolivar), 1887. Species of the genus are mainly distributed in India, Vietnam, Cambodia, Burma, Indonesia, Philippines, China, Nepal, Bangladesh, Sudan. Among which 44 species are widely distributed in east, south and southwest of China. The present paper describes a new species of the genus from Guangxi of China. The type specimens are deposited in the Institute of Zoology, Shaanxi Normal University, China (2 ♂♂, 2♀♀) and Department of Chemistry and Life Science, Hechi University, China (1 ♂, 1♀).

Bolivaritettix hechiensis sp. nov. (Figs 1-4)

Measurements. Length of body: ♂9.0-9.5 mm, ♀ 10.0-10.5 mm; length of pronotum: ♂12.5-13.0 mm, ♀ 14.0-14.5 mm; length of hind femur: ♂5.5-5.8 mm, ♀ 6.5-7.0 mm.

Female. Size small, slender. Head not exerted above the pronotal surface. Width of vertex 1.2 times wider than the width of an eye, anterior margin of vertex straight, not protruding beyond eyes, median carina conspicuous. In profile, vertex and frontal ridge forming a right angle, frontal ridge concave between lateral ocellus, frontal ridge protruding archly between antennae, width of longitudinal furrow narrower than width of first segment of antennae. Antenna filiform, 15-segmented, length of a segment in middle about 7-8 times longer than its width, inserted between lower margins of eyes. Eyes globose, lateral ocelli placed on middle of anterior margins of eyes. Anterior margin of pronotum straight, midkeel of pronotum completed, upper margin of pronotum straight, only slightly convex before shoulders in profile. Lateral keels of prozona constricted backward,

humeral angle obtuse, with a pair short longitudinal keels between shoulders. Caudal end of pronotum narrow, long cone-shaped, length of hind process which surpassing apex of hind femora about 4 mm. Lateral lobes of pronotum produced outwards, end of posterior angles truncate, posterior margins of lateral lobes of pronotum with two concavities. Tegmina long oval, apex round. Wings reaching or slightly surpassing top of hind process of pronotum. Upper and lower margins of fore and middle femora straight, width of midfemur obvious narrower than width of tegmina. Length of hind femur as 3.2 times as width, margins serrulate, preknee teeth and knee teeth acute. Outer side of hind tibia with 8-9 spines, inner side with 5-6 spines. First and third hind tarsal segments equal in length, three pulvilli equal in length, apices of all the pulvilli obtuse. Ovipositor narrow and long, length of upper valvulae 4 times its width, upper and lower valvulae with slender saw-like teeth. Length of subgenital plate longer than its width, middle of posterior margin of subgenital plate with a triangular convex.

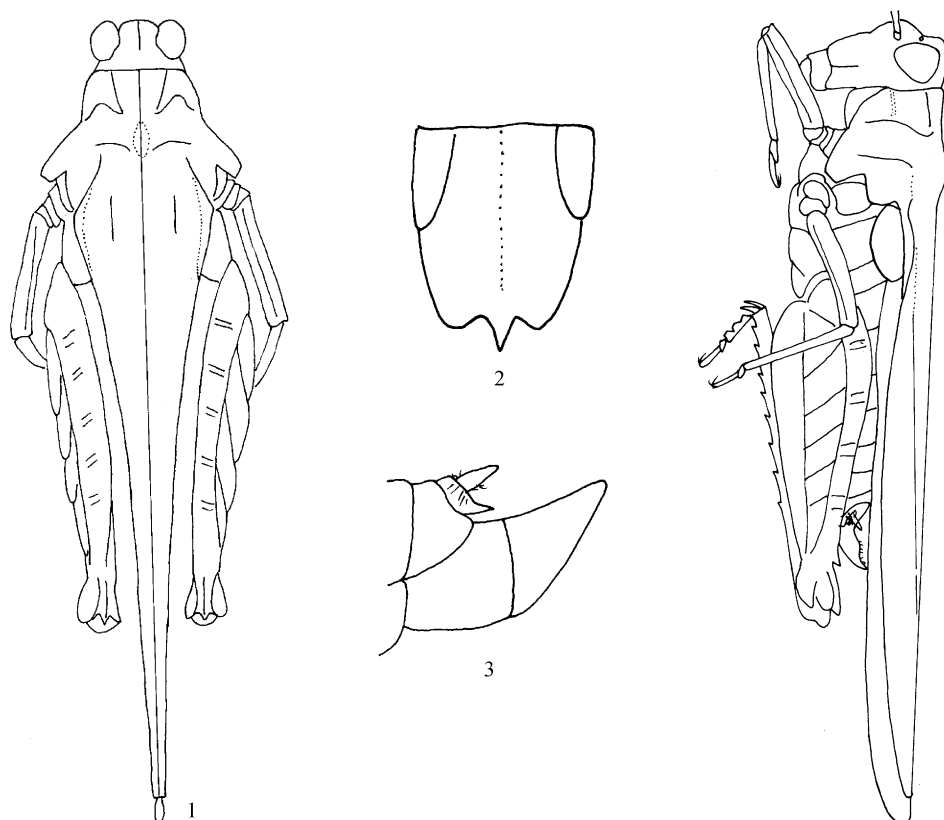
Body dark brown. Hind wing black brown. Hind tibia dark brown.

Male. Body smaller than female, feature of structure similar to female. Width of midfemur slightly narrower than width of tegmina, subgenital plate brief cone shaped, apex sharp.

Holotype ♀, China, Guangxi, Hechi (24.7°N, 107.8°E; alt. 400 m), 1 Apr. 2006, coll. DENG Wei An. Paratypes: 2 ♂♂, 1♀, same data as holotype; 1 ♂, 1♀, China, Guangxi, Luocheng, 700 m, 29 Apr. 2006, coll. DENG Wei An and WEI Shi Zhen.

Etymology. The species was named after the type locality, Hechi, Guangxi, China.

Remarks. This new species is similar to *Bolivaritettix*



Figs 1-4. *Bolivaritettix hechiensis* sp. nov. 1. Body of female, dorsal view. 2. Subgenital plate of female, ventral view. 3. Subgenital plate of male, lateral view. 4. Body of female, lateral view.

luteolineatus Zheng, 2003 but can be distinguished by: 1) in profile, vertex and frontal ridge forming a right angle; 2) frontal ridge concave between lateral ocellus; 3) caudal end of pronotum slightly reaching top of hind tibia; 4) lower margins of middle femora straight; 5) posterior margin of subgenital plate with a triangular convex; 6) body dark brown, disc of pronotum without a longitudinal yellow stripe in the middle.

Distribution. China (Guangxi).

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广西波蚱属一新种记述 (直翅目, 蚱总科, 短翼蚱科)

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摘 要 记述广西波蚱属 *Bolivaritettix* 1 新种, 即河池波蚱 *Bolivaritettix hechiensis* sp. nov.。模式标本保存在陕西师范大学动物研究所标本室(2 ♂♂, 2♀♀) 和河池学院动物标本室(1 ♂, 1♀)。

河池波蚱, 新种 *Bolivaritettix hechiensis* sp. nov. (图 1~ 4)

本种近似于黄条波蚱 *Bolivaritettix lutolineatus* Zheng, 2003, 主要区别为: 1) 侧面观头顶与颜面隆起成直角形; 2) 颜面

关键词 直翅目, 蚱总科, 短翼蚱科, 波蚱属, 新种, 广西.
中图分类号 Q969. 26

隆起在侧单眼之间略凹陷; 3) 前胸背板后突几到达后足胫节顶端; 4) 中足股节下缘平直; 5) 雌性下生殖板后缘中央三角形突出; 6) 体暗褐色, 前胸背板背面不具纵条纹。

正模 ♀, 广西河池 (河池镇), 400 m, 2006 04 01, 邓维安采; 副模: 2 ♂♂, 1♀, 同正模; 1 ♂, 1♀, 广西罗城 (青明山), 700 m, 2006 04 29, 邓维安采。